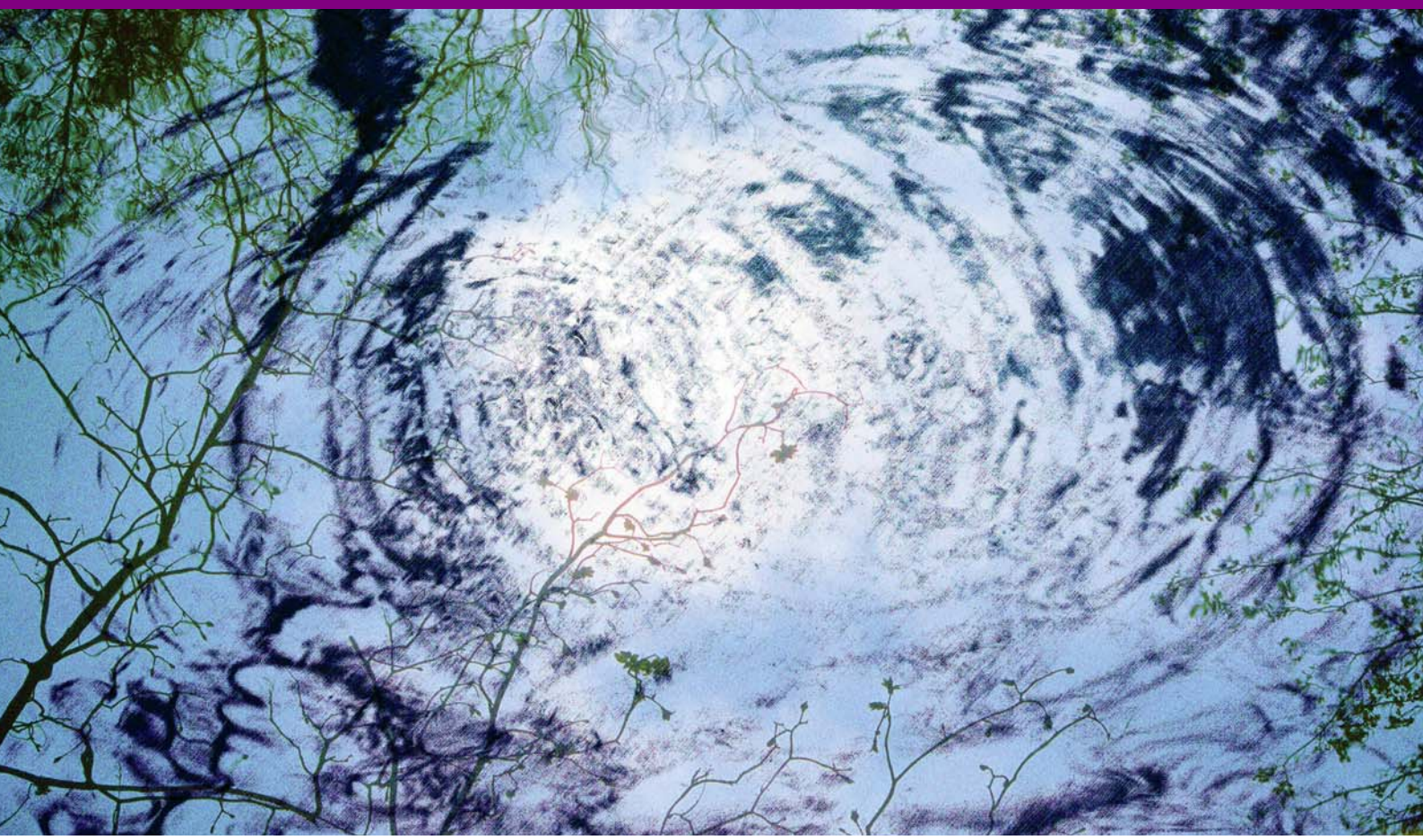
eyeheight



# safeEyesHDi

23/10/07 – v2.20

## user manual

# Revision History

| Version | Date | Description | Author |
|---|---|---|---|
| 2.10 | 11/05/07 | Unit now has 2 output instead of just 1 | SF |
| 2.20 | 23/10/2007 | Automation information now accurate. Grid removed and cursor luma added. | SC |



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# 1 System Overview

The safeEyesHDi is a full-featured Safe area Generator system compatible with 1.5 Gbit/s High Definition Serial Digital formats in 1920 pixels by 1080 lines as per SMTE 274. The unit has full internal 10 Bit processing. The main features of the safeEyesHDi is as follows:

- Provides three generators for Safe area, Safe Caption, Digital and analogue edge in all the current Screen formats (4:3 and 16:9) including "Shoot to protect" with Thick/Thin/Dashed line and Shade/Full Black Blanking options.
- Provides one generator for Film Blanking positions providing optional on-screen "White lines", or full "Black" Blanking.
- Provides one generator for Centre Indication, H and V electronic line-up cursors, Box generation with Aspect ratio Readout for 4:3 or 16:9 targets, Analogue blanking, Text Height Measurement, Line and Pixel strobe with readout of line and pixel number.
- Dual SDI outputs to reduce the need for external distribution amplifiers
- Provides SMPTE Graticule generator.
- 24Hz, 25Hz and 30Hz standards both Interlaced and Progressive - auto sensing. As per SMPTE 274.
- 6 User Memories.



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# 2 Installation

## 2.1 Connections to a safeEyesHDi

The diagram below shows the typical connections to the safeEyesHDi.

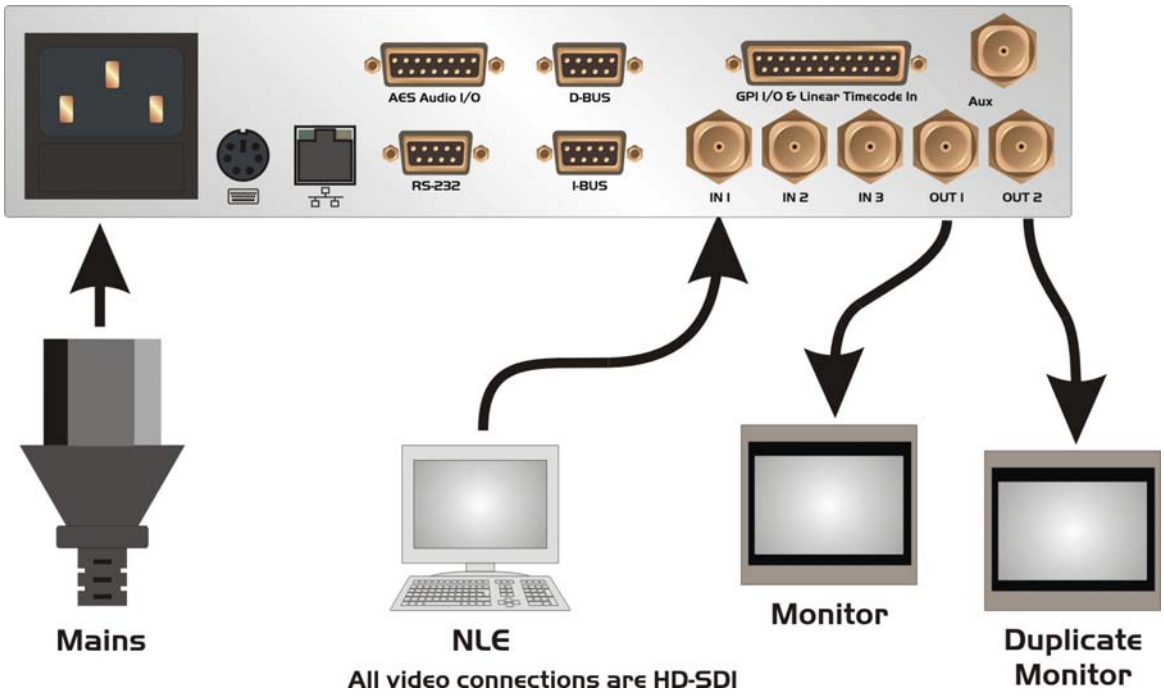


**Figure 1 - Typical Connections**

IN1 is the HD-SDI input. OUT1 is the HD-SDI output with safe areas on it.

## 2.2 Associated Equipment for the safeEyesHDi

The safeEyesHDi in the evolutionDT platform is fully self-contained. The evolutionDT can optionally be rack mounted in with 1 or 2 units in a 19" rack using the optional FF-6 rack mounting. This is a factory-installed option and should be ordered with the product. Rack mounted units should be supported with suitable chassis supports.



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# 3 Control Panel

Figure 3 shows the control panel of the evolutionDT platform.

**1 - Power/Status LED**

Green – Normal operation
Green Flashing – Version Information Display
Orange – Product is initialising
Flashing Red – Product is in Field Reprogramming Mode

**2 - Menu Display/Button (1 of 4)**

Displays Menu Information. The colour of the menu button indicates the function.

Green – adjustment menu. Pressing the menu or using the associated digipot(6) will adjust the menu value.

Yellow – information menu, no adjustment possible.

Blue – navigation menu. Pressing the button will take you up or down the menu hierarchy.

Red – multiple variable menu. Pressing the button will “open” the menu assigning one digipot(6) to each variable. The active LED(5) will light above the digipots associated with each variable.

**3 - Next Menu Button**

Within a layer of the menu hierarchy there may be more than four menus and where this is the case the “next” button will illuminate to show that further menus are available. Pressing the “next” button moves you to the next set of menus.

**4 – Previous Menu Button**

Within a layer of the menu hierarchy there may be more than four menus and where this is the case the “prev” button will illuminate to show that previous menus are available. Pressing the “prev” button moves you to the previous set of menus.

**5 – Digipot Active LED (1 of 4)**

Illuminates to indicate that the digipot below is active for adjustment of the associated menu variable.

**6 – Digipot (1 of 4)**

Allows for rapid adjustment of the associated menu variable. Pressing a digipots returns the associated variable to its default value.

**7 – Next Device Button**

It is possible to control more than one device from a single evolutionDT control panel. Where more than one device is assigned to the panel the “next dev” will move control to the next device in the device list.

In setup mode this button will pick up a free device and assign it to this panels device list. The button will flash to indicate that a free device is selected.

**8 – Previous Device Button**



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Where more than one device is assigned to the panel the “prev dev” will move control to the previous device in the device list.

In setup mode this button will remove a device owned by this panel from this panels device list. The button will flash to indicate an owned device is selected.

**9 – Info Button**

This button displays all hardware, software and firmware version information for the currently selected product and this panel.

In setup mode where a free evolutionDT device is selected this button will flash indicating that the network address (box & slot) can be changed. Pressing this button will take you to the adjustment menus.

**10 – Setup Button**

Press and hold this button for four seconds to enter setup mode.

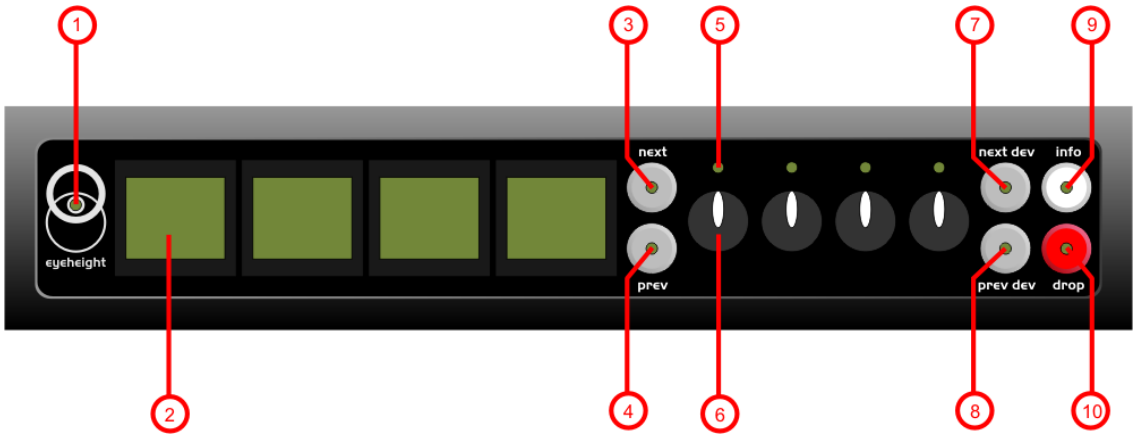


**Figure 2 - evolutionDT Control Panel**



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# 4 Operation

## 4.1 Manual control of the safeEyesHDi

The safeEyesHDi is controlled using a set of MENUS. Each of these menus contains up to 3 parameters that are adjusted using the rotary digipots. The Menus define all of the adjustable operational parameters in the safeEyesHDi.

See chapter 3 Control Panel Operation for details of the control panel operation.

See section 3 of this chapter for the full list of menus.

## 4.2 Automation Control of the safeEyesHDi

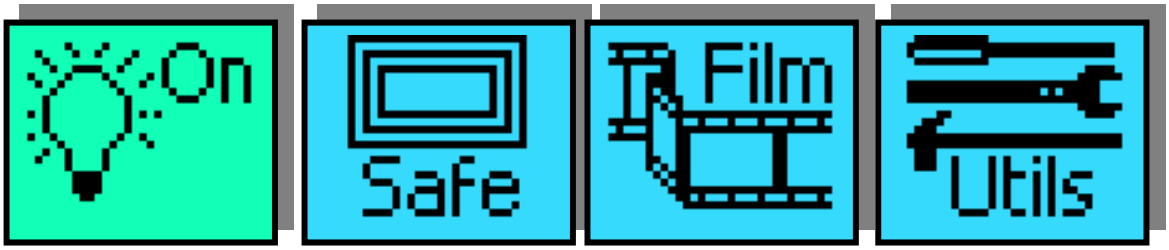
Automation of the evolutionDT products is achieved either via the RS232 port (currently not implemented) or via the I-Bus Port using an optional DG-9 (RS232 to I-Bus dongle). Automation control of the safeEyesHDi is performed using the geNETics Automation Protocol.

Genetics protocol is described in detail in the “geNETics User Guide” section titled “Automation Protocol on the geNETics Platform”. The menu list in section 3 of this chapter contains the data information for the protocol.

Please refer to the “User guide for the DG-9 eyeheight dongle and set-up software.

## 4.3 Operational Menus for the safeEyesHDi

**Menus 00-03** **Top Level Menus**




| Menu Num. | Heading | Automation | Function |
|---|---|---|---|
| 0 | On/Off | Off,On<br>[0, off→1, on] | This will switch in and out the system as a whole, effectively putting it into and out of bypass mode. |
| 1 | Safe | None | Displays Safe Areas menus |
| 2 | Film | None | Displays Film Areas menus |



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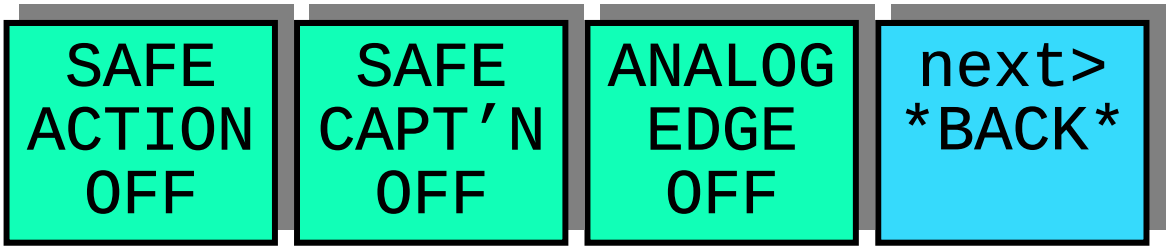
| | | | |
|---|---|---|---|
| 3 | Tools | None | Displays menus for Text, Box, Centre, Strobe, Cursor, Memories, SMPTE Graticule, and Setup |
| | | | |

**Menus 04-07** **Safe Areas Menus**




| Menu Num. | Heading | Automation | Function |
|---|---|---|---|
| 4 | 'Safe Action' or 'Safe Capt'n' or 'Analog Edge' or 'Digital Edge' or 'Clean Apature' | On/Off [0, off→1, on] | This turns 'Safe Area box 1' On/Off |
| 5 | 'Safe Action' or 'Safe Capt'n' or 'Analog Edge' or 'Digital Edge' or 'Clean Apature' | On/Off [0, off→1, on] | This turns 'Safe Area box 2' On/Off |
| 6 | 'Safe Action' or 'Safe Capt'n' or 'Analog Edge' or 'Digital Edge' or 'Clean Apature' | On/Off [0, off→1, on] | This turns 'Safe Area box 3' On/Off |
| 7 | Back | none | Pressing this button moves the display back up a level of the nested menu structure |



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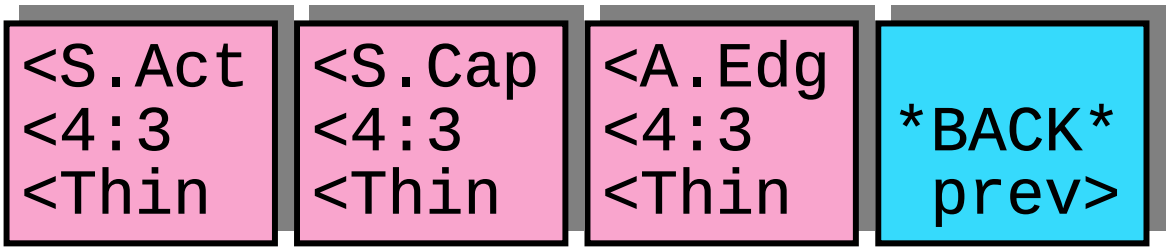
**Menus 08-11** **Safe Areas Menus**




| Menu Num. | Heading | Automation | Function |
|---|---|---|---|
| 8 | 'S. Act' or 'S.Cap' or 'D.Edg' or 'A.Edg' or 'C.App' | <u>Digipot A</u><br>S. Act<br>S.Cap<br>D.Edg<br>A.Edg<br>C.App<br>[0→4]<br><br><u>Digipot B</u><br>4:3<br>16:9<br>16p4:3<br>16p149<br>43p16:9<br>[0→4]<br><br><u>Digipot C</u><br>Thin<br>Thick<br>Shade<br>Black<br>Dash1<br>Dash2<br>[0→5] | Controls 'Safe Area box 1'<br><br>When this button is pressed to "Green". The Three-line display in the window indicates the three options, which can be changed by adjusting the three rotary digipots A, B and C.<br><br>Determines the basic Function<br>Selects "Safe Action" option<br>Selects "Safe Caption" option<br>Selects "Digital Edge" option<br>Selects the "An. Edge" option<br>Selects the "Clean Apatur" option<br><br>Determines the Screen Format<br>Standard 4:3 Screen<br>Standard 16:9 Screen<br>16:9 Shoot to protect 4:3<br>16:9 Shoot to protect 14:9<br>4:3 Shoot to protect 16:9<br><br>Determines the Style of Indicate<br>Thin White lines are used<br>Thick White lines are used<br>Shade is used for "danger area"<br>Black is used for "danger area"<br>Thin Dashed White lines are used<br>Thick Dashed White lines are used |
| 9 | Same as Menu 8 | Same as Menu 8 | Controls 'Safe Area box 2'<br><br>Same as Menu 8 |



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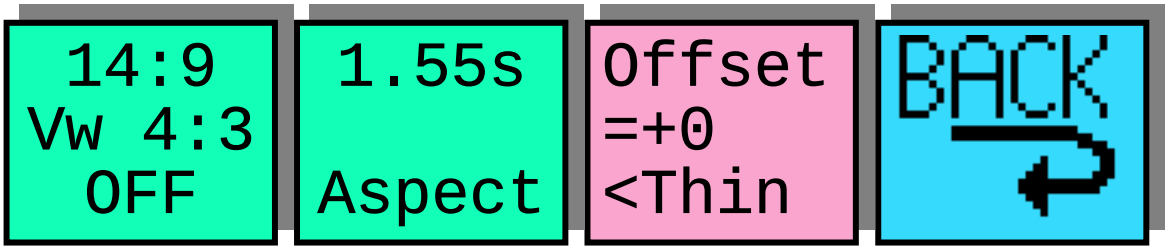
| | | | |
|---|---|---|---|
| 10 | Same as Menu 8 | Same as Menu 8 | Controls ‘Safe Area box 3’<br><br>Same as Menu 8 |
| 11 | Back | none | Pressing this button moves the display back up a level of the nested menu structure |

**Menus 12-15** **Film Menus**




| Menu Num. | Heading | Automation | Function |
|---|---|---|---|
| 12 | Film Safe Areas | Digipot A On/Off<br>[0, off→1, on]<br><br><u>Digipot B</u><br>1.55s<br>1.66s<br>1.78s<br>1.85s<br>2.05s<br>2.35s<br>1.33w<br>1.55w<br>1.66w<br>1.85w<br>2.05w<br>2.35w<br>[0→11] | Activates the Film Box Generator<br><br>-Determines the basic Function<br>-14:9 AR viewed on a 4:3 Glass<br>-Super16 viewed on a 4:3 Glass<br>-16:9 AR viewed on a 4:3 Glass<br>-1.85 AR viewed on a 4:3 Glass<br>-2.05 AR viewed on a 4:3 Glass<br>Cinimascope Vw'd on 4:3 Glass<br>4:3 Viewed on a 16:9 Glass<br>14:9 Viewed on a 16:9 Glass<br>Super16 Viewed on a 16:9 Glass<br>1.85 Viewed on a 16:9 Glass<br>2.05 Viewed on a 16:9 Glass<br>Cinimascope Vw'd on 16:9 Glass |
| 13 | Selected Aspect Ratio | 1.33 to 2.35 | Shows the decimal equivalent of the aspect ratio chosen in menu 12 |
| 14 | Offset | | The Selected area is chosen by pressing the "Red" switch next to this one and adjusting the rotary digipots with the |



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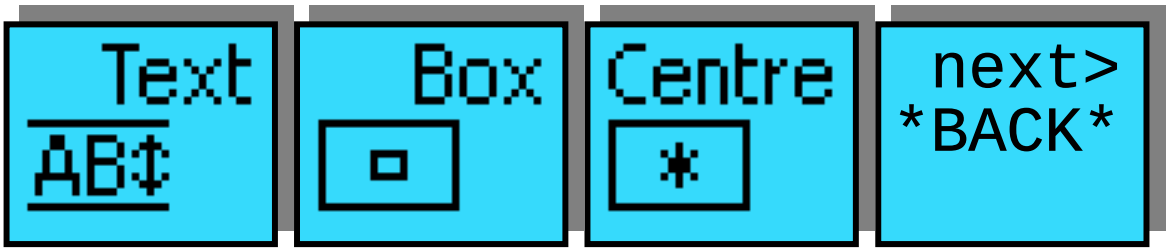
| | | | |
|---|---|---|---|
| | | Digipot A<br>[-134 to 255]<br><br>Digipot B<br>Thin<br>Thick<br>Shade<br>Black<br>Dash1<br>Dash2<br>[0→5] | green LED's which are alight.<br><br>This determines the position of the frame vertically in line increments. These frames are often offset to include subtitles or teletext.<br><br>Determines the Style of Indicate<br>Thin White lines are used<br>Thick White lines are used<br>Shade is used for "danger area"<br>Black is used for "danger area"<br>Thin Dashed White lines are used<br>Thick Dashed White lines are used |
| 15 | Back | none | Pressing this button moves the display back up a level of the nested menu structure |

**Menus 16-19** **Tools Menus 1**




| Menu Num. | Heading | Automation | Function |
|---|---|---|---|
| 16 | Text | none | Displays Text Height menu |
| 17 | Box | none | Displays User Box menu |
| 18 | Centre | none | Displays Centre menu |
| 19 | Back | none | Pressing this button moves the display back up a level of the nested menu structure |



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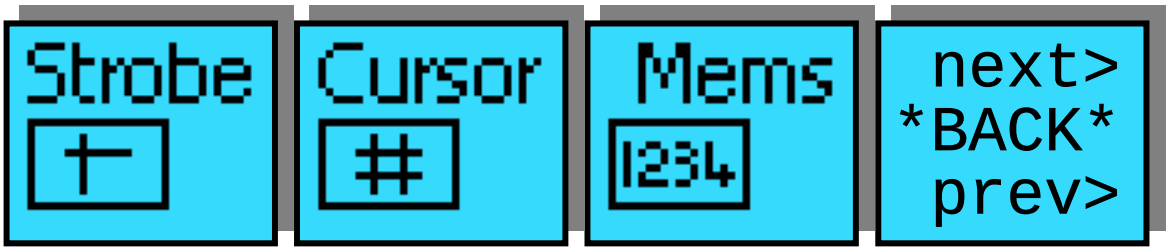
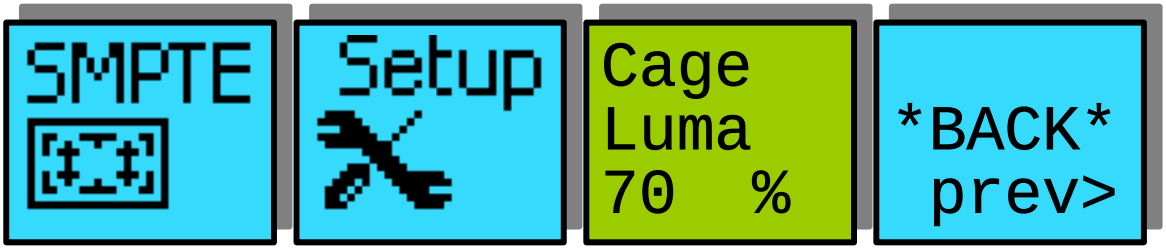
**Menus 20-23** **Tools Menus 2**




| Menu Num. | Heading | Automation | Function |
|---|---|---|---|
| 20 | Strobe | none | Displays Strobe menu |
| 21 | Cursor | none | Displays Cursors menu |
| 22 | Mems | none | Displays Memories menu |
| 23 | Back | none | Pressing this button moves the display back up a level of the nested menu structure |

**Menus 24-27** **Tools Menus 3**




| Menu Num. | Heading | Automation | Function |
|---|---|---|---|
| 24 | SMPTE | none | Displays SMPTE Graticule menu |
| 25 | Set-Up | none | Go to Set-Up menus |
| 26 | Cage Brightness | 64→940 | Cursor luminance level. |
| 27 | Back | none | Pressing this button moves the display back up a level of the nested menu structure |



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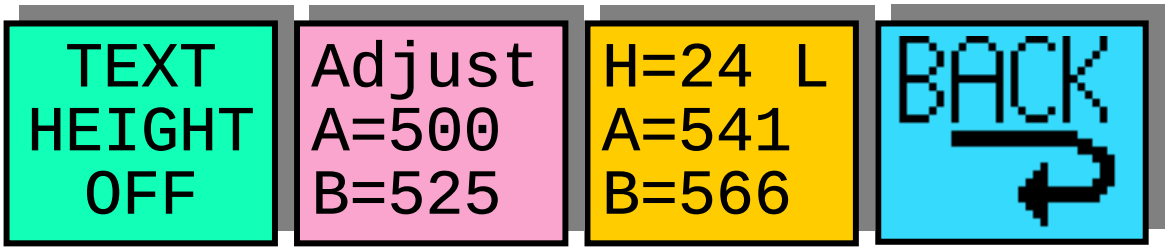
**Menus 28-31** **Text Menus**




| Menu Num. | Heading | Automation | Function |
|---|---|---|---|
| 28 | Text Height control | On/Off<br>[0, off→1, on] | Activates the Text Height Generator |
| 29 | Offset | <u>Digipot A</u><br>[1→1080]<br><u>Digipot B</u><br>[1→1080] | The Selected area is chosen by pressing the "Red" switch next to this one and adjusting the rotary digipots with the green LED's which are alight.<br>This determines the position of one of the lines of text heigh.<br>This determines the position of the other line of text height. |
| 30 | Text height value | H=<br>1 to 1078<br>A=<br>42 to 1121<br>B=<br>42 to 1121 | Calculated text height between lines set in menu 29<br>Displays 'video format' line number for both line A and B, which will change for interlaced and progressive video |
| 31 | Back | none | Pressing this button moves the display back up a level of the nested menu structure |



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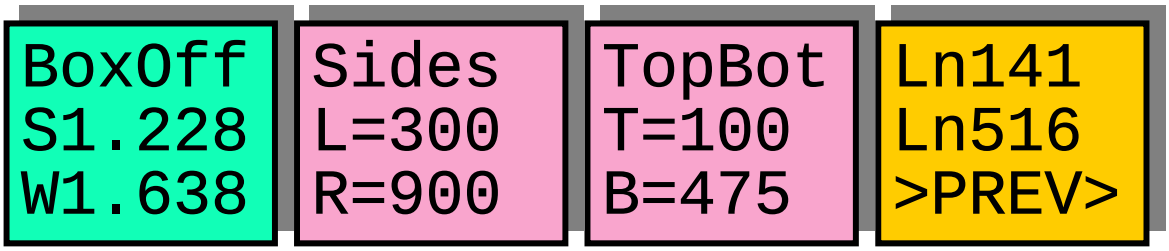
**Menus 32-35** **Box Menus**




| Menu Num. | Heading | Automation | Function |
|---|---|---|---|
| 32 | Box control & Aspect Ratio Readout | Off/On/Clip [0→2] | Activates the User Box Generator can also select 'clip' which blanks around box & Displays the Aspect Ratio of the user defined box. There are two readouts the readout prefixed by the "s" is the Aspect Ratio when the picture is viewed on a 4:3 monitor. The readout prefixed by the "w" is the Aspect Ratio when the picture is viewed on a 16:9 monitor. |
| 33 | Position of the sides in the Box | <u>Digipot A</u><br>1→1920 [1→1920]<br><u>Digipot B</u><br>1→1920 [1→1920] | When this button is pressed to "Green". The Three-line display in the window indicates the two options, which can be changed by adjusting the two rotary digipots A and B.<br>-Defines the position of the left hand side<br>-Defines the position of the right hand side |
| 34 | Position of the top and bottom of the Box | <u>Digipot A</u><br>1 to 1080 [1→1080]<br><u>Digipot B</u><br>1 to 1080 | When this button is pressed to "Green". The Three-line display in the window indicates the two options, which can be changed by adjusting the two rotary digipots A and B.<br>-Defines the position of the Top<br>-Defines the position of Bottom |



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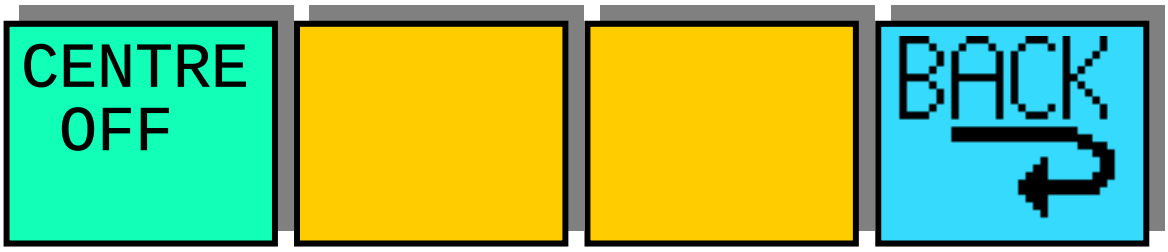
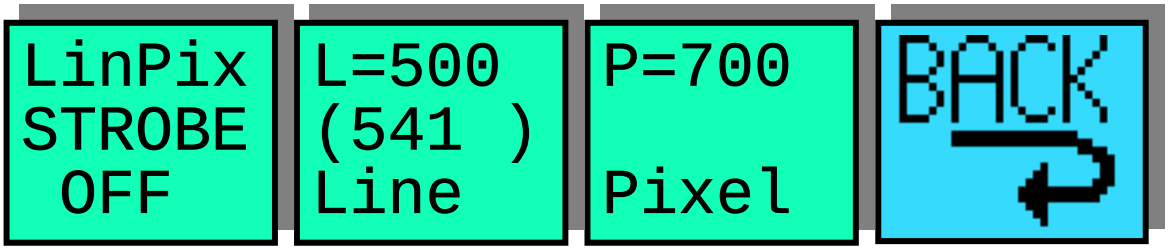
| | | | |
|---|---|---|---|
| | | [1→1080] | |
| 35 | Format line number | 42 to 1121 | Displays ‘video format’ line number for both top and bottom of box, which will change for interlaced and progressive video |

**Menus 36-39** **Centre Menus**




| Menu Num. | Heading | Automation | Function |
|---|---|---|---|
| 36 | Centre control | Cross<br>Square<br>Dot<br>Off<br>[0→3] | Activates the Centre Generator and controls it’s format |
| 37 | none | none | none |
| 38 | none | none | none |
| 39 | Back | none | Pressing this button moves the display back up a level of the nested menu structure |

**Menus 40-43** **Strobe Menus**




| Menu Num. | Heading | Automation | Function |
|---|---|---|---|



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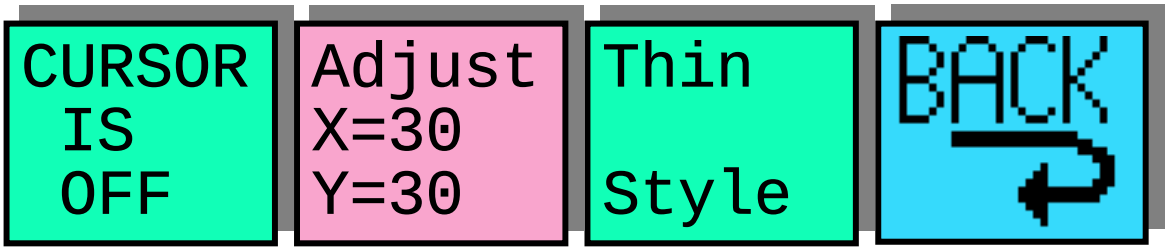
| | | | |
|---|---|---|---|
| 40 | Strobe control | On/Off<br>[0, off→1, on] | Activates the Strobe Generator |
| 41 | Line number | <u>Digipot B</u><br>1→1080<br>[1→1080] | Can be changed by adjusting the rotary digipot B.<br><br>Sets Strobes Line number<br><br>Also shows Strobes line number represented in video format style within brackets, which will change for interlaced and progressive video. |
| 42 | Pixel number | <u>Digipot C</u><br>1 to 1920<br>[1→1920] | Can be changed by adjusting the rotary digipot C.<br><br>Sets Strobes pixel number |
| 43 | Back | none | Pressing this button moves the display back up a level of the nested menu structure |

**Menus 44-47** **Cursor Menus**




| Menu Num. | Heading | Automation | Function |
|---|---|---|---|
| 44 | Cursor control | On/Off<br>[0, off→1, on] | Activates the Cursor Generator |
| 43 | | | When this button is pressed to "Green". The Three-line display in the window indicates the two options, which can be changed by adjusting the two rotary digipots A and B . |



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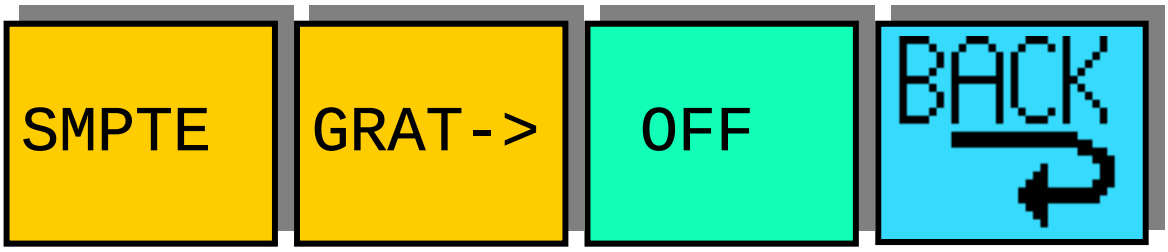
| | | | |
|---|---|---|---|
| | | Digipot A<br><br>Horiz' Position<br>2 to 1920<br>[2→1920]<br>even numbers only<br><br>Digipot B<br>Vertical Position<br>2 to 1080<br>[2→1080]<br>even numbers only | Adjusts the horizontal position of the cursors from the centre of picture.<br><br>Adjusts the vertical position of the cursors from the centre of picture. |
| 44 | Mems | Digipot C<br>Thin<br>Thick<br>[0→1] | When this button is pressed to "Green". The display in the window indicates the two options, that can be changed by adjusting the rotary digipot C which selects between thick and thin line cursors. |
| 45 | Back | none | Pressing this button moves the display back up a level of the nested menu structure |

**Menus 48-51** **SMPTE Graticule Menus**




| Menu Num. | Heading | Automation | Function |
|---|---|---|---|
| 48 | none | none | Just displays “SMPTE” |
| 49 | none | none | Just displays “GRAT->” |
| 50 | SMPTE Graticule | On/Off<br>[0, off→1, on] | Activates the Graticule Generator |



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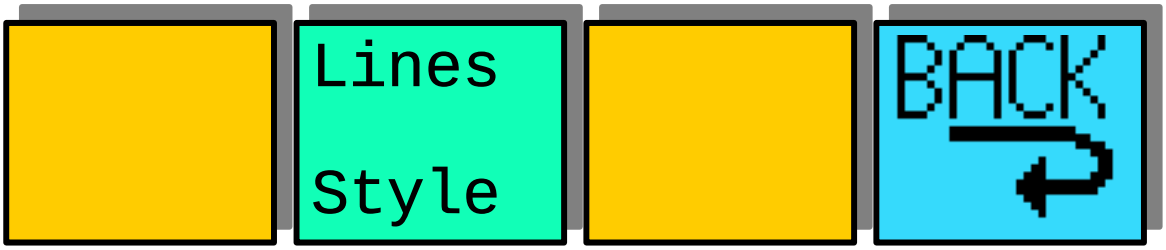
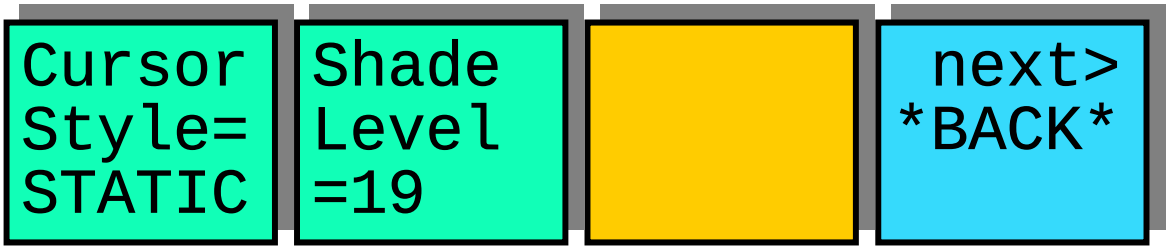
| | | | |
|---|---|---|---|
| | control | | |
| 51 | Back | none | Pressing this button moves the display back up a level of the nested menu structure |

**Menus 52-55** **SMPTE Menus**




| Menu Num. | Heading | Automation | Function |
|---|---|---|---|
| 52 | none | none | none |
| 53 | Grid style | Lines/Dots [0→1] | Selects between displaying complete lines on grid or dots at intersections of lines |
| 54 | none | none | none |
| 55 | Back | none | Pressing this button moves the display back up a level of the nested menu structure |

**Menus 56-59** **Setup Menus**




| Menu Num. | Heading | Automation | Function |
|---|---|---|---|
| 56 | Lines display | Static/dynamic | Selects line display style for all |



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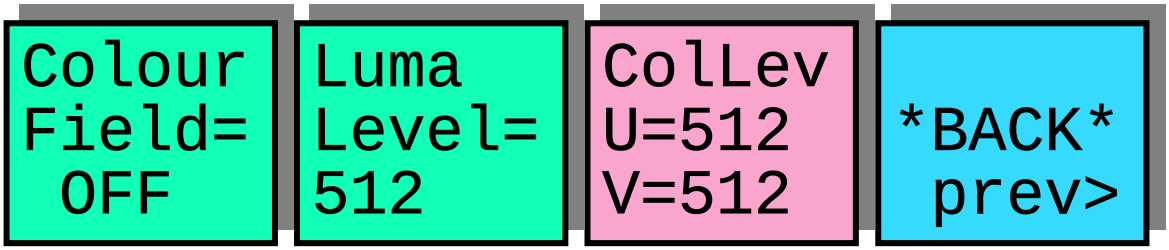
| | | | |
|---|---|---|---|
| | type | [0→1] | boxes/grids/cursors/etc.<br><br>Static – Lines drawn as white Dynamic – Lines drawn as white on dark backgrounds and black on light backgrounds |
| 57 | Shade Level | 0→99<br>[0→99] | Sets luminance level of shaded areas of box generators in menus 04 thru 15 |
| 58 | none | none | none |
| 59 | Back | none | Pressing this button moves the display back up a level of the nested menu structure |

**Menus 60-63** **Colour Field Generator Menus**




| Menu Num. | Heading | Automation | Function |
|---|---|---|---|
| 44 | Colour Field | On/Off<br>[0, off→1, on] | Activates the Colour Field Generator |
| 45 | Luma Level | Digipot A<br>4 to 1019<br>[4→1019] | Adjusts the Luma value of the Colour Field Generator |
| 46 | Colour Level | <br><br><br><br>Digipot A<br>4 to 1019<br>[4→1019]<br><br>Digipot B<br>4 to 1019 | When this button is pressed to "Green". The Three-line display in the window indicates the two options, which can be changed by adjusting the two rotary digipots A and B<br><br>Adjusts the Cb colour difference value<br><br>Adjusts the Cr colour difference value |



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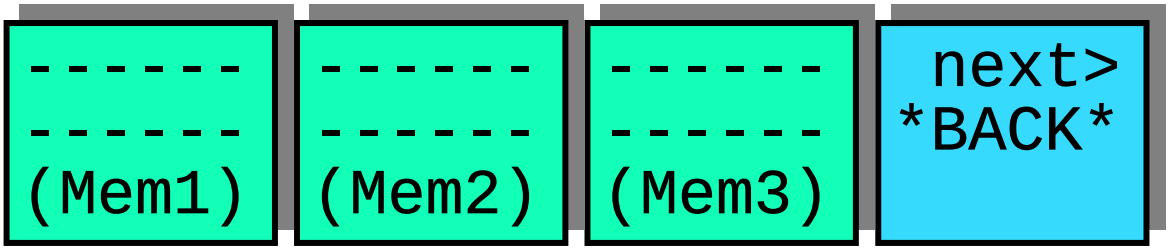
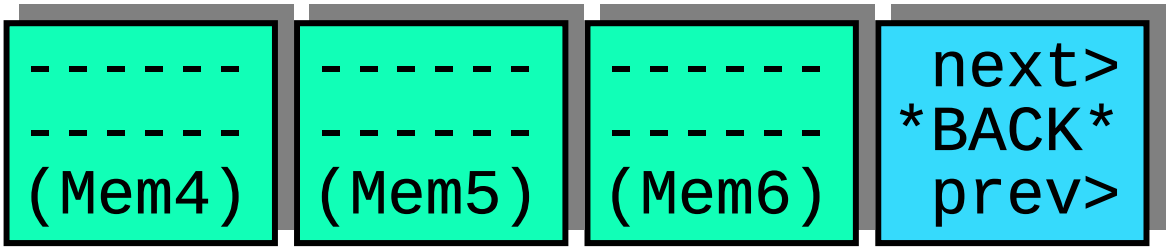
| | | | |
|---|---|---|---|
| | | [4→1019] | |
| 47 | BACK | none | Go To the Top Level Menus |

**Menus 64-67** **Utility Menus (Memories)**




| Menu Num. | Heading | Automation | Function |
|---|---|---|---|
| 64 | MEM1 | 1=Recall | Pressing this will recall Memory number 1.User Names can be programmed in to the memories using a keyboard. See “geNETics User guide”, section “Giving product Memories names” |
| 65 | MEM2 | 1=Recall | Pressing this will recall Memory number 2. |
| 66 | MEM3 | 1=Recall | Pressing this will recall Memory number 3. |
| 67 | BACK | none | Go To the Top Level Menus |

**Menus 68-71** **Utility Menus (Memories)**




| Menu Num. | Heading | Automation | Function |
|---|---|---|---|
| | | | |



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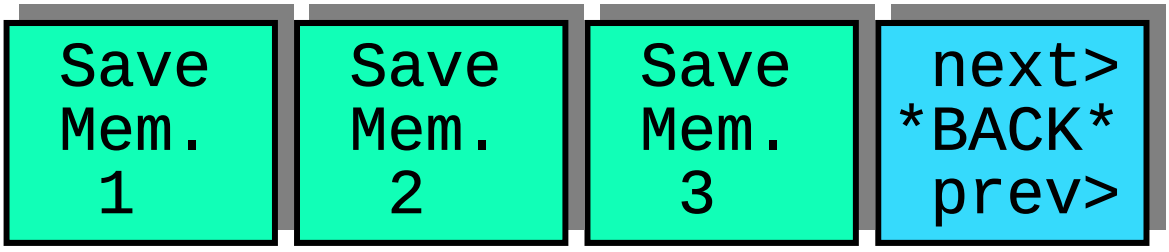
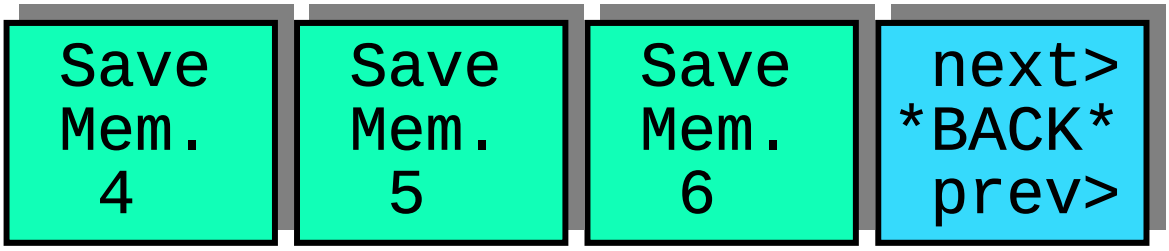
| | | | |
|---|---|---|---|
| 68 | MEM4 | 1=Recall | Pressing this will recall Memory number 4. |
| 69 | MEM5 | 1=Recall | Pressing this will recall Memory number 5. |
| 70 | MEM6 | 1=Recall | Pressing this will recall Memory number 6. |
| 71 | BACK | none | Go To the Top Level Menus |

**Menus 72-75** **Utility Menus (Memories)**




| Menu Num. | Heading | Automation | Function |
|---|---|---|---|
| 72 | SAVE MEM1 | 1=Save | Pressing this will Save Memory number 1. |
| 73 | SAVE MEM2 | 1= Save | Pressing this will Save Memory number 2. |
| 74 | SAVE MEM3 | 1= Save | Pressing this will Save Memory number 3. |
| 75 | BACK | none | Go To the Top Level Menus |

**Menus 76-79** **Utility Menus (Memories)**



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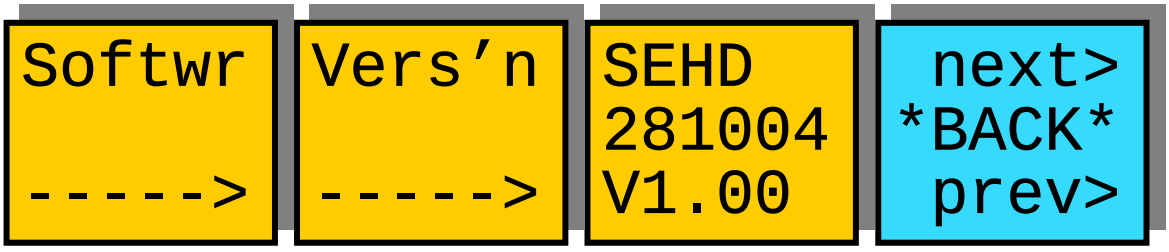
| Menu Num. | Heading | Automation | Function |
|---|---|---|---|
| 76 | SAVE MEM4 | 1= Save | Pressing this will Save Memory number 4. |
| 77 | SAVE MEM5 | 1= Save | Pressing this will Save Memory number 5. |
| 78 | SAVE MEM6 | 1= Save | Pressing this will Save Memory number 6. |
| 79 | BACK | none | Go To the Top Level Menus |

**Menus 80-83** **Utility Menus (Software)**




| Menu Num. | Heading | Automation | Function |
|---|---|---|---|
| 80 | Info | none | Information |
| 81 | Info | none | Information |
| 82 | none | none | Software Version Information |
| 83 | BACK | none | Go To the Top Level Menus |

**Menus 84-87** **Utility Menus (Memories)**

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| Menu Num. | Heading | Automation | Function |
|---|---|---|---|
| 84 | Set As Pow On Memory | 1=Set | Pressing this will set the current system set-up as the Power on memory default. |
| 85 | Recall Pow On Memory | 1=Recall | Pressing this will recall The Power-on memory set up in the last menu. |
| 86 | Total Reset | 1=Reset | Pressing this will cause a first Birthday of the unit. All current memories and settings will be lost. |
| 87 | BACK | none | Go To the Top Level Menus |



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# 5 Appendices

## 5.1 Appendix 4, technical specification

| | |
|---|---|
| HD-SDI Inputs 1485Mbit, 75ohm | 1 input (HD-SDI) |
| HD-SDI cable equalisation | At least 100 Meters of Belden 1694A |
| HD-SDI Outputs. 1485Mbit, 75ohm, 800mV. | 2 output (HD-SDI) |
| GPI Inputs. (activate by short to ground) | none |
| Tally Outputs | none |
| Control System connections. | eyeheight I-Bus, 2 wire network. |
| Control Surfaces | Option of 2 eyeheight control surfaces.<br>Integral front mounted contol panel or<br>remote FP-9, flexipanel. |
| Chassis | Eyeheight evolution miniBox chassis.<br>Either a half width 1RU assembly for desk mounting or<br>a full 1RU assembly for 19 inch rack mounting. |
| Line Standards | 1080-23.98psf, 1080-24psf, 1080-23.98p, 1080-24p, 1080-25p, 1080-50i, 1080-29.97p, 1080-30p, 1080-59.94i, 1080-60i, 720p-23.98, 720p-24, 720p-25, 720p-29.97, 720p30, 720p50, 720p59.94, 720p60 |
| Power supply | 100→240V ac. Less than 50W power consumption. |



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